Course Description Form

1. Course Name: Statics and strength of materials											
2. Course Code:											
3. Semester / Year: First semester / 2024-2025											
4. 1	4. Description Preparation Date: 11/11/2024										
5. Available Attendance Forms: In person											
6 Number of Credit Hours (Total) / Number of Units (Total) · 1 hours / 8											
0. Truinder of Clean Hours (10(a) / Truinder of Offics (10(a)) . 4 flours / 8											
7. Course administrator's name (mention all, if more than one name)											
Dr. Mohand Nawfal Mustafa											
8. Course Objectives : The student acquires information about statics and											
materials resistance.											
Course Objectives • Make the student interested and knowledgeable in statics											
				and materials resistance.							
9	Feach	ning and Le	arning Stra	tegies							
Strategy	Strategy 1- The teacher explains the subject to the students.										
	2- Asking questions about the subject to engage them in scientific discussion										
	about the subject.										
3- Daily, semester and final exams.											
4- Scientific reports about the subject.											
5- Scientific projects.											
10. Course Structure											
Week Hou		rs Require	d Learning	Unit or subject	Learning	Evaluation					
		Outcom	es	name	method	method					
1-2	8	B The student learn introduction to science of statics. student gains know		Introduction to Statics and Vector Analysis	In person	student participation in class					

					1	1				
		of vector analysis.								
3-4	8	The student acquired knowledge of force analysis and finding the resultant forces and moments.	Analysis finding forces a	s of forces and the resultant of nd moments	In person	Student Participation Daily Exam				
5-6	8	The student gained knowledge of finding the equilibrium of forces and moments	Equilibr momen	ium of forces and ts	In person	Student Participation Daily Exam				
7-8		The student gained knowledge of friction, center of gravity and moment of inertia.	Friction and mo	, center of gravity ment of inertia	In person	Student Participation Daily Exam				
9-12		Introduction to the science of material strength and calculation of vertical stresses and shear stresses	Material strength and stresses		In person	Student Participation Daily Exam				
13- 15		Calculating bending and torsional stresses and conducting a semester exam	Bending stresses	g and torsional	In person	Student Participation Semester Exam				
11. (Course	Evaluation								
20% documented exam 5% Quizes 5% reports and homowork										
12. I	Learning	and Teaching Res	sources	6						
Require	d textboo	ks (curricular books, if	any)							
Main ref	ferences	(sources)		Engineering Mechanics Book / Written						
				by (Maryam)						
				 strength of materials Book Written by 						
				(Sanger)						
Recomm	nended	books and refe	rences	Engineering Mechanics Book by (Haberle)						
(scientif	ic journal	s, reports)								
Electron	ic Refere	nces, Websites								